

PF-0701 USA

SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.

TANG, Y. Tom  
YUE, Henry  
LAL, Preeti  
BURFORD, Neil  
BANDMAN, Olga  
BAUGHN, Mariah R.  
AZIMZAI, Yalda  
LU, Dyung Aina M.  
PATTERSON, Chandra

<120> EXTRACELLULAR SIGNALING MOLECULES

<130> PF-0701 USA

<140> To Be Assigned

<141> Herewith

<150> 60/134,949; 60/144,270; 60/146,700; 60/157,508

<151> 1999-05-19; 1999-07-15; 1999-07-30; 1999-10-04

<160> 55

<170> PERL Program

<210> 1

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1288847CD1

<400> 1

Met	Gly	Lys	Glu	Trp	Val	Lys	Ile	Leu	Leu	Phe	Leu	Leu	His	Leu
1				5				10					15	
Ser	Asn	Phe	Phe	Thr	Ile	Val	Thr	Phe	Leu	Gly	Ser	Gln	Gly	Leu
			20					25					30	
Leu	Gln	Ser	Pro	Ser	Tyr	Glu	Lys	Leu	Val	Gly	Cys	Cys	Leu	Met
			35					40					45	
Thr	Arg	Gly	Cys	Phe	Ser	Pro	Ser	Val	Met	Leu	Pro	Ser	Ala	Ala
			50					55					60	
Pro	Ser	Gln	Gln	Asp	Ser	Pro	Ser	His	Ser	Arg	Ala	Pro	Gly	Pro
			65					70					75	
Cys	Ser													

<210> 2

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> Incyte ID No: 1329044CD1

<400> 2

Met Lys Thr Pro Asn Asp Leu Phe Leu Arg Gln Leu Gly Tyr Leu  
1 5 10 15  
Ser Ile Cys Cys Phe Val Phe Ser Ser Glu Glu Ser Lys Asn Tyr  
20 25 30  
Lys Ile Ser Leu Ile Val Tyr Leu Thr Phe Leu Thr Met Glu Thr  
35 40 45  
Lys Pro Arg Asn Ser Ile Tyr Ser Val Leu Thr Gln Ser Thr His  
50 55 60  
Pro Asp Phe Glu Ser Pro Arg Thr Gly Val Pro Asn Pro Arg Ala  
65 70 75  
Glu Asp Gln Tyr Gln Phe Glu Ala Tyr Tyr Arg Val Thr  
80 85

<210> 3

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1493630CD1

<400> 3

Met Ser Met Gln Phe Leu Phe Lys Met Val Ala Leu Cys Cys Cys  
1 5 10 15  
Leu Trp Lys Ile Ser Gly Cys Glu Glu Val Pro Leu Thr Tyr Asn  
20 25 30  
Leu Leu Lys Cys Leu Leu Asp Lys Ala His Cys Val Leu Leu Thr  
35 40 45  
Pro Cys Gly Tyr Ile Phe Ser Leu Ile Ser Pro Glu Ile Leu Lys  
50 55 60  
Leu Thr Leu Ile Thr Leu Gln Ile Leu Leu Ile Leu Lys Asn Leu  
65 70 75  
His Leu Leu Trp Leu Thr Val Ser Ser Arg Cys Val His Arg Ser  
80 85 90  
Ser Ala Arg Lys Glu Lys  
95

<210> 4

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1533041CD1

<400> 4

Met Arg Leu Ser Leu Pro Leu Gly Ser Leu Leu Trp Pro Phe Leu  
1 5 10 15  
Val Cys Gly Cys Leu Leu Gln Val Ala Leu Cys Gln Thr Arg Ser  
20 25 30  
Ala Pro His Leu Asp Thr His Ser Pro Val Ala Phe Gln Cys Ser

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	35		40		45
Gly Arg Lys Pro Val Ser Leu Asp Val Lys Leu Thr Leu Met Gly					
	50		55		60
Trp Gly Arg Gly Leu Gly Arg Arg Gly Gly Arg Gly Glu Gly Thr					
	65		70		75
Glu Leu Arg Ile Ser Trp Ser Ala Leu Gln Ala Gln Arg Arg Ser					
	80		85		90
Ala Lys Val Leu Asn Arg Phe Ser Leu Glu Ile Lys Asn Pro					
	95		100		

<210> 5

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1566162CD1

<400> 5

Met Leu Met Phe Ile Lys Gly Leu Ser Ser Thr Leu Phe Leu Gly					
1	5		10		15
Ser Thr Leu Ser His Arg Asp Pro Ile Cys Phe Tyr Ser Phe His					
	20		25		30
Phe His Leu Tyr Leu Leu Pro His Ala Val Ser Pro Val Thr Asn					
	35		40		45
Ser Ile Tyr Asn Tyr Leu Leu Gly Leu Tyr Leu Asp Thr Cys Thr					
	50		55		60

<210> 6

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1811831CD1

<400> 6

Met Pro Lys Ser Gln Ser His His Leu Thr Gln Leu Gln Leu Leu					
1	5		10		15
Pro Ser Cys Leu Leu Gly Leu Leu Pro Pro Val Pro Ala Val His					
	20		25		30
Ala Tyr Ile Leu Gln Gly Cys Val Leu Ser Gly Arg Glu Ile Phe					
	35		40		45
Phe Ser Val Leu Gln Phe Phe Thr Gln Thr Phe Ser Phe Val Val					
	50		55		60
Pro Val Phe Pro Ser Phe Pro Gly Gly Phe Arg Leu Pro Phe Ser					
	65		70		75
Ser Pro Trp Leu Ser Leu Cys Pro Ile His Arg Ser Thr Leu Gln					
	80		85		90
Ala Cys Leu Tyr Glu Arg Gly Leu Phe Leu Cys Arg Lys Leu Thr					
	95		100		105
Leu Thr Arg Cys Gly Cys Ser Tyr Thr Asp Leu Ile					
	110		115		

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<210> 7  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Incyte ID No: 1835447CD1

<400> 7  
Met Arg Ala Lys Gly Phe Leu Ala Pro Ser Leu Val Leu Ala Val  
1 5 10 15  
Ser Leu Glu Leu Met His Pro Asp Ala Asn Ser Pro Ser Glu Cys  
20 25 30  
Arg Gly Asp Glu Thr Leu Thr Gly Gln Phe Asn Leu Tyr Met Gly  
35 40 45  
Asp Lys Leu Glu Gly Lys Thr Asn Gly Arg Arg Val Lys Arg Lys  
50 55 60  
Leu Asn Tyr Cys Ala Asn Thr Arg His Ser Asn Pro Gly Gly Tyr  
65 70 75  
Cys Arg Val Asn Asn Asp Arg Tyr Tyr Phe Val  
80 85

<210> 8  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3892281CD1

<400> 8  
Met Arg Cys Arg Leu Leu Ala Gly Ala Leu Val Leu Leu His Leu  
1 5 10 15  
Arg Leu Ser Ile Trp Leu Leu Gly Leu Pro His Ser Met Ala Asp  
20 25 30  
Gly Leu Arg Glu Gly Ala Phe Pro Asn Lys Gly Pro His Lys Leu  
35 40 45  
Asp Leu Trp Arg Ala Ser Leu Arg Ser His Pro Val Ser His Gly  
50 55 60  
Pro His Phe Ile Gly Tyr Arg Ala Ser Gln Phe Glu Gly Glu Glu  
65 70 75  
Lys Tyr Val Ala Val Tyr Ala Val Ser Ser Ala Ser Leu Leu Pro  
80 85 90  
Ala Leu Pro Val Pro Val Leu Arg Ala Ala Leu Ala Glu Gln Met  
95 100 105  
Tyr Leu Leu Ser

<210> 9  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>

PF-0701 USA

<221> misc\_feature

<223> Incyte ID No: 4318494CD1

<400> 9

Met Arg Ser Pro Ser Phe Pro Phe Thr Leu Leu Ser Gly Leu Pro  
1 5 10 15  
Gly Pro Gly Phe Ser Gln Leu Cys Val Arg Val Ser Gln Val Ser  
20 25 30  
Arg Asn Pro Met Arg Ser Glu Gly Cys Phe Gly Leu Leu Lys Ser  
35 40 45  
Val Gln Asp Asn Pro Ala Ser Ala Leu Glu Leu Leu Asp Phe Ser  
50 55 60  
Asp Ile Gln Val Asn Ala Glu Phe Asp Gly Leu Ala Ser Ser Val  
65 70 75  
Arg Gly Ile Leu Pro Glu Leu Cys Ile Lys Thr Gly Ala Cys Arg  
80 85 90  
Val Glu Tyr Lys Lys Glu Leu Leu Pro Val Phe Arg Ser Ala Leu  
95 100 105  
Pro Ala Ser Val Pro Lys  
110

<210> 10

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5090841CD1

<400> 10

Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly  
1 5 10 15  
Trp Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe  
20 25 30  
Ser Leu Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg  
35 40 45  
Thr Ser Tyr Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys  
50 55 60  
Asn Ala Cys Ile Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu  
65 70 75  
Glu Ile Arg Ser Asp Asn Trp Leu Ala Ser His Leu Gly Leu Pro  
80 85 90  
Pro Asp Ser Leu Leu Ser Tyr Pro Ala Asn Tyr Ser Asp Asp Ser  
95 100 105  
Lys Ile Trp Arg Pro Val Glu Ile Phe Arg Leu Val Ser Lys Tyr  
110 115 120  
Gln Asn Glu Ile Ser Asp Arg Arg Ile Cys Ala Ser Ala Ser Ala  
125 130 135  
Pro Lys Thr Cys Ser Ile Glu Arg Val Leu Arg Lys Thr Glu Arg  
140 145 150  
Phe Gln Lys Trp Leu Gln Ala Lys Arg Leu Thr Pro Asp Leu Val  
155 160 165  
Gln Asp Cys His Gln Gly Gln Arg Glu Leu Lys Phe Leu Cys Met  
170 175 180

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Leu Arg

<210> 11

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2006548CD1

<400> 11

Met	Arg	Gly	Ala	Thr	Arg	Val	Ser	Ile	Met	Leu	Leu	Leu	Val	Thr
1				5					10					15
Val	Ser	Asp	Cys	Ala	Val	Ile	Thr	Gly	Ala	Cys	Glu	Arg	Asp	Val
			20						25					30
Gln	Cys	Gly	Ala	Gly	Thr	Cys	Cys	Ala	Ile	Ser	Leu	Trp	Leu	Arg
			35						40					45
Gly	Leu	Arg	Met	Cys	Thr	Pro	Leu	Gly	Arg	Glu	Gly	Glu	Glu	Cys
			50						55					60
His	Pro	Gly	Ser	His	Lys	Val	Pro	Phe	Phe	Arg	Lys	Arg	Lys	His
			65						70					75
His	Thr	Cys	Pro	Cys	Leu	Pro	Asn	Leu	Leu	Cys	Ser	Arg	Phe	Pro
			80						85					90
Asp	Gly	Arg	Tyr	Arg	Cys	Ser	Met	Asp	Leu	Lys	Asn	Ile	Asn	Phe
			95						100					105

<210> 12

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2207183CD1

<400> 12

Met	Glu	Gly	Pro	Glu	Phe	Leu	Arg	Thr	Ala	Thr	Ser	Ala	Ser	Gly
1				5					10					15
Arg	Gly	Glu	His	Arg	Ala	Glu	Gly	Val	Cys	Ser	Arg	Leu	Arg	Glu
			20						25					30
Ala	Ala	Arg	Arg	Arg	Gly	Arg	Pro	Ser	Leu	Lys	Gly	Lys	Arg	Lys
			35						40					45
Arg	Gly	Ser	Ala	Ser	Ile	Pro	Glu	Arg	Gly	Leu	Gly	Arg	Met	Lys
			50						55					60
Thr	Ser	Ala	Glu	Leu	His	Glu	Gln	Glu	Lys	Pro	Pro	Ser	Ser	Pro
			65						70					75
Arg	Ala	Thr	Gly	Pro	Gly	Arg	Leu	Gly	His	Ala	Arg	Gly	Arg	Gly
			80						85					90
Pro	Asp	Ala	Leu	Arg	Gly	Gly	Ala	Ala	Gly	Pro	Gly	Arg	Ala	Ser
			95						100					105
Ser	Gly	Ala	Pro	Arg	Glu	Arg	Lys	Met	Ala	Pro	His	Gly	Pro	Gly
			110						115					120
Ser	Leu	Thr	Thr	Leu	Val	Pro	Trp	Ala	Ala	Ala	Leu	Leu	Leu	Ala

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	125		130		135
Leu Gly Val Glu Arg Ala Leu Ala Leu	Pro Glu Ile Cys Thr Gln				
	140		145		150
Cys Pro Gly Ser Val Gln Asn Leu Ser	Lys Val Ala Phe Tyr Cys				
	155		160		165
Lys Thr Thr Arg Glu Leu Met Leu His	Ala Arg Cys Cys Leu Asn				
	170		175		180
Gln Lys Gly Thr Ile Leu Gly Leu Asp	Leu Gln Asn Cys Ser Leu				
	185		190		195
Glu Asp Pro Gly Pro Asn Phe His Gln	Ala His Thr Thr Val Ile				
	200		205		210
Ile Asp Leu Gln Ala Asn Pro Leu Lys	Gly Asp Leu Ala Asn Thr				
	215		220		225
Phe Arg Gly Phe Thr Gln Leu Gln Thr	Leu Ile Leu Pro Gln His				
	230		235		240
Val Asn Cys Pro Gly Gly Ile Asn Ala	Trp Asn Thr Ile Thr Ser				
	245		250		255
Tyr Ile Asp Asn Gln Ile Cys Gln Gly	Gln Lys Asn Leu Cys Asn				
	260		265		270
Asn Thr Gly Asp Pro Glu Met Cys Pro	Glu Asn Gly Ser Cys Val				
	275		280		285
Pro Asp Gly Pro Gly Leu Leu Gln Cys	Val Cys Ala Asp Gly Phe				
	290		295		300
His Gly Tyr Lys Cys Met Arg Gln Gly	Ser Phe Ser Leu Leu Met				
	305		310		315
Phe Phe Gly Ile Leu Gly Ala Thr Thr	Leu Ser Val Ser Ile Leu				
	320		325		330
Leu Trp Ala Thr Gln Arg Arg Lys Ala	Lys Thr Ser				
	335		340		

<210> 13

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2267403CD1

<400> 13

Met Val Pro Glu Val Arg Val Leu Ser	Ser Leu Leu Gly Leu Ala		
1	5	10	15
Leu Leu Trp Phe Pro Leu Asp Ser His	Ala Arg Ala Arg Pro Asp		
	20	25	30
Met Phe Cys Leu Phe His Gly Lys Arg	Tyr Ser Pro Gly Glu Ser		
	35	40	45
Trp His Pro Tyr Leu Glu Pro Gln Gly	Leu Met Tyr Cys Leu Arg		
	50	55	60
Cys Thr Cys Ser Glu Gly Ala His Val	Ser Cys Tyr Arg Leu His		
	65	70	75
Cys Pro Pro Val His Cys Pro Gln Pro	Val Thr Glu Pro Gln Gln		
	80	85	90
Cys Cys Pro Lys Cys Val Glu Pro His	Thr Pro Ser Gly Leu Arg		
	95	100	105
Ala Pro Pro Lys Ser Cys Gln His Asn	Gly Thr Met Tyr Gln His		

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	110		115		120
Gly Glu Ile Phe	Ser Ala His Glu Leu	Phe Pro Ser Arg Leu	Pro		
	125		130		135
Asn Gln Cys Val	Leu Cys Ser Cys Thr	Glu Gly Gln Ile Tyr	Cys		
	140		145		150
Gly Leu Thr Thr	Cys Pro Glu Pro Gly	Cys Pro Ala Pro Leu	Pro		
	155		160		165
Leu Pro Asp Ser	Cys Cys Gln Ala Cys	Lys Asp Glu Ala Ser	Glu		
	170		175		180
Gln Ser Asp Glu	Glu Asp Ser Val Gln	Ser Leu His Gly Val	Arg		
	185		190		195
His Pro Gln Asp	Pro Cys Ser Ser Asp	Ala Gly Arg Lys Arg	Gly		
	200		205		210
Pro Gly Thr Pro	Ala Pro Thr Gly Leu	Ser Ala Pro Leu Ser	Phe		
	215		220		225
Ile Pro Arg His	Phe Arg Pro Lys Gly	Ala Gly Ser Thr Thr	Val		
	230		235		240
Lys Ile Val Leu	Lys Glu Lys His Lys	Lys Ala Cys Val His	Gly		
	245		250		255
Gly Lys Thr Tyr	Ser His Gly Glu Val	Trp His Pro Ala Phe	Arg		
	260		265		270
Ala Phe Gly Pro	Leu Pro Cys Ile Leu	Cys Thr Cys Glu Asp	Gly		
	275		280		285
Arg Gln Asp Cys	Gln Arg Val Thr Cys	Pro Thr Glu Tyr Pro	Cys		
	290		295		300
Arg His Pro Glu	Lys Val Ala Gly Lys	Cys Cys Lys Ile Cys	Pro		
	305		310		315
Glu Asp Lys Ala	Asp Pro Gly His Ser	Glu Ile Ser Ser Thr	Arg		
	320		325		330
Cys Pro Lys Ala	Pro Gly Arg Val Leu	Val His Thr Ser Val	Ser		
	335		340		345
Pro Ser Pro Asp	Asn Leu Arg Arg Phe	Ala Leu Glu His Glu	Ala		
	350		355		360
Ser Asp Leu Val	Glu Ile Tyr Leu Trp	Lys Leu Val Lys Asp	Glu		
	365		370		375
Glu Thr Glu Ala	Gln Arg Gly Glu Val	Pro Gly Pro Arg Pro	His		
	380		385		390
Ser Gln Asn Leu	Pro Leu Asp Ser Asp	Gln Glu Ser Gln Glu	Ala		
	395		400		405
Arg Leu Pro Glu	Arg Gly Thr Ala Leu	Pro Thr Ala Arg Trp	Pro		
	410		415		420
Pro Arg Arg Ser	Leu Glu Arg Leu Pro	Ser Pro Asp Pro Gly	Ala		
	425		430		435
Glu Gly His Gly	Gln Ser Arg Gln Ser	Asp Gln Asp Ile Thr	Lys		
	440		445		450
Thr					

<210> 14

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature



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<223> Incyte ID No: 2933038CD1

<400> 14

Met Leu Gly Ser Arg Ala Val Met Leu Leu Leu Leu Leu Pro Trp  
1 5 10 15  
Thr Ala Gln Gly Arg Ala Val Pro Gly Gly Ser Ser Pro Ala Trp  
20 25 30  
Thr Gln Cys Gln Gln Leu Ser Gln Lys Leu Cys Thr Leu Ala Trp  
35 40 45  
Ser Ala His Pro Leu Val Gly His Met Asp Leu Arg Glu Glu Gly  
50 55 60  
Asp Glu Glu Thr Thr Asn Asp Val Pro His Ile Gln Cys Gly Asp  
65 70 75  
Gly Cys Asp Pro Gln Gly Leu Arg Asp Asn Ser Gln Phe Cys Leu  
80 85 90  
Gln Arg Ile His Gln Gly Leu Ile Phe Tyr Glu Lys Leu Leu Gly  
95 100 105  
Ser Asp Ile Phe Thr Gly Glu Pro Ser Leu Leu Pro Asp Ser Pro  
110 115 120  
Val Gly Gln Leu His Ala Ser Leu Leu Gly Leu Ser Gln Leu Leu  
125 130 135  
Gln Pro Glu Gly His His Trp Glu Thr Gln Gln Ile Pro Ser Leu  
140 145 150  
Ser Pro Ser Gln Pro Trp Gln Arg Leu Leu Leu Arg Phe Lys Ile  
155 160 165  
Leu Arg Ser Leu Gln Ala Phe Val Ala Val Ala Ala Arg Val Phe  
170 175 180  
Ala His Gly Ala Ala Thr Leu Ser Pro  
185

<210> 15

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3216587CD1

<400> 15

Met Gly Ala Val Met Gly Thr Phe Ser Ser Leu Gln Thr Lys Gln  
1 5 10 15  
Arg Arg Pro Ser Lys Asp Lys Ile Glu Asp Glu Leu Glu Met Thr  
20 25 30  
Met Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln  
35 40 45  
Thr Asn Phe Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe  
50 55 60  
Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys  
65 70 75  
Gln Ile Tyr Ala Gln Phe Phe Pro His Gly Asp Ala Ser Thr Tyr  
80 85 90  
Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr Gln Thr Gly Ser  
95 100 105  
Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile Leu Leu Arg

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	110		115		120
Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu Tyr Asp					
	125		130		135
Ile Asn Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met Met Asp Ile					
	140		145		150
Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val					
	155		160		165
Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln					
	170		175		180
Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe					
	185		190		195
Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln					
	200		205		210
Leu Phe Gln Asn Val Met					
	215				

<210> 16

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5037143CD1

<400> 16

Met Ala Ala Ala Arg Leu Cys Leu Ser Leu Leu Leu Leu Ser Thr					
1	5		10		15
Cys Val Ala Leu Leu Leu Gln Pro Leu Leu Gly Ala Gln Gly Ala					
	20		25		30
Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln					
	35		40		45
Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu					
	50		55		60
Thr Arg Pro Arg Cys Val Pro Gln Leu Gly Arg Glu Ile Pro Ala					
	65		70		75
Pro Gly Thr Leu Gly Pro Leu His Ile Pro Gly His Thr Leu Ser					
	80		85		90
Pro Ala Pro Ala Pro Ala Pro Ser Arg Pro Ala Leu Gly Lys Thr					
	95		100		105
Gly His Leu Cys Ser Thr Gly Leu Asp Gln Cys Ala Leu Gly Lys					
	110		115		120
Met Val Pro Thr Gly Arg Tyr Glu Thr Gly Gly Leu Ala Pro Gly					
	125		130		135
His Ser Ala Cys Pro Cys Cys Leu Phe Pro Pro Arg Tyr Gly Lys					
	140		145		150
Arg His Lys Glu Asp Thr Leu Ala Phe Ser Glu Trp Gly Ser Pro					
	155		160		165
His Ala Ala Val Pro Arg Glu Leu Ser Pro Leu Asp Leu					
	170		175		

<210> 17

<211> 177

<212> PRT

<213> Homo sapiens

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<220>

<221> misc\_feature

<223> Incyte ID No: 1235265CD1

<400> 17

Met	Glu	Pro	Gly	Asn	Arg	Ser	Leu	Asn	Pro	His	Lys	Thr	Lys	His
1				5					10					15
His	Met	Glu	Cys	Arg	Val	Thr	Gly	Arg	Ala	Glu	Val	Thr	Ala	Ser
				20					25					30
Arg	Glu	Gly	Arg	Gly	Ala	Cys	Ala	Trp	Glu	Cys	Gly	Ser	Ser	Arg
				35					40					45
Gly	Pro	Trp	Gly	Leu	Leu	Arg	Tyr	Thr	Phe	Ala	Pro	Val	Arg	Ala
				50					55					60
Ser	Arg	Pro	Trp	Ala	Cys	Leu	Pro	Lys	Gly	Ser	Leu	Ser	Gln	Arg
				65					70					75
Pro	Lys	Leu	Pro	Pro	Pro	Val	His	Leu	Pro	Pro	Lys	Ser	Ser	Cys
				80					85					90
Pro	Pro	Arg	Ala	Gly	Gly	Gly	Gly	Ala	Gln	Gly	Arg	Gly	Val	Pro
				95					100					105
Cys	Thr	Tyr	Leu	Ser	Pro	Leu	Ser	His	Ser	Pro	Lys	Thr	Phe	Cys
				110					115					120
Thr	Phe	Leu	Gln	Gly	Cys	Pro	Ser	Gln	Gln	Phe	Pro	Ser	Trp	Leu
				125					130					135
Ile	Lys	Pro	Ser	Asp	Trp	Cys	Cys	Val	Pro	Ser	Leu	Trp	Pro	Leu
				140					145					150
Cys	Gly	Glu	Arg	Gly	Leu	Gln	Gly	Glu	Glu	Pro	Gly	Arg	Asp	Ser
				155					160					165
Gln	Ala	Ser	Pro	Trp	Glu	Gly	Gly	Ala	Ser	Arg	Arg			
				170					175					

<210> 18

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5571181CD1

<400> 18

Met	Ala	Ala	Leu	Gln	Lys	Ser	Val	Ser	Ser	Phe	Leu	Met	Gly	Thr
1				5					10					15
Leu	Ala	Thr	Ser	Cys	Leu	Leu	Leu	Leu	Ala	Leu	Leu	Val	Gln	Gly
				20					25					30
Gly	Ala	Ala	Ala	Pro	Ile	Ser	Ser	His	Cys	Arg	Leu	Asp	Lys	Ser
				35					40					45
Asn	Phe	Gln	Gln	Pro	Tyr	Ile	Thr	Asn	Arg	Thr	Phe	Met	Leu	Ala
				50					55					60
Lys	Glu	Ala	Ser	Leu	Ala	Asp	Asn	Asn	Thr	Asp	Val	Arg	Leu	Ile
				65					70					75
Gly	Glu	Lys	Leu	Phe	His	Gly	Val	Ser	Met	Ser	Glu	Arg	Cys	Tyr
				80					85					90
Leu	Met	Lys	Gln	Val	Leu	Asn	Phe	Thr	Leu	Glu	Glu	Val	Leu	Phe
				95					100					105
Pro	Gln	Ser	Asp	Arg	Phe	Gln	Pro	Tyr	Met	Gln	Glu	Val	Val	Pro

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	110		115		120									
Phe	Leu	Ala	Arg	Leu	Ser	Asn	Arg	Leu	Ser	Thr	Cys	His	Ile	Glu
	125				130									135
Gly	Asp	Asp	Leu	His	Ile	Gln	Arg	Asn	Val	Gln	Lys	Leu	Lys	Asp
	140				145									150
Thr	Val	Lys	Lys	Leu	Gly	Glu	Ser	Gly	Glu	Ile	Lys	Ala	Ile	Gly
	155				160									165
Glu	Leu	Asp	Leu	Leu	Phe	Met	Ser	Leu	Arg	Asn	Ala	Cys	Ile	
	170								175					

<210> 19

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 685374CD1

<400> 19

Met	Ala	Leu	Leu	Arg	Lys	Ser	Tyr	Ser	Glu	Pro	Gln	Leu	Lys	Gly
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Ile	Val	Thr	Lys	Leu	Tyr	Ser	Arg	Gln	Gly	Tyr	His	Leu	Gln	Leu
				20					25					30
Gln	Ala	Asp	Gly	Thr	Ile	Asp	Gly	Thr	Lys	Asp	Glu	Asp	Ser	Thr
				35					40					45
Tyr	Thr	Leu	Phe	Asn	Leu	Ile	Pro	Val	Gly	Leu	Arg	Val	Val	Ala
				50					55					60
Ile	Gln	Gly	Val	Gln	Thr	Lys	Leu	Tyr	Leu	Ala	Met	Asn	Ser	Glu
				65					70					75
Gly	Tyr	Leu	Tyr	Thr	Ser	Glu	Leu	Phe	Thr	Pro	Glu	Cys	Lys	Phe
				80					85					90
Lys	Glu	Ser	Val	Phe	Glu	Asn	Tyr	Tyr	Val	Thr	Tyr	Ser	Ser	Met
				95					100					105
Ile	Tyr	Arg	Gln	Gln	Gln	Ser	Gly	Arg	Gly	Trp	Tyr	Leu	Gly	Leu
				110					115					120
Asn	Lys	Glu	Gly	Gly	Ile	Met	Lys	Gly	Asn	His	Val	Lys	Lys	Asn
				125					130					135
Lys	Pro	Ala	Ala	His	Phe	Leu	Pro	Lys	Pro	Leu	Lys	Val	Ala	Met
				140					145					150
Tyr	Lys	Glu	Pro	Ser	Leu	His	Asp	Leu	Thr	Glu	Phe	Ser	Arg	Ser
				155					160					165
Gly	Ser	Gly	Thr	Pro	Thr	Lys	Ser	Arg	Ser	Val	Ser	Gly	Val	Leu
				170					175					180
Asn	Gly	Gly	Lys	Ser	Met	Ser	His	Asn	Glu	Ser	Thr	Pro	Val	Arg
				185					190					195
Ala	Lys	Glu	Gly	Leu	Cys	Asn	Arg	Thr	Leu	Pro	Pro	Gly	Ala	Val
				200					205					210
Glu	Phe	Phe												

<210> 20

<211> 239

<212> PRT

<213> Homo sapiens

PF-0701 USA

<220>

<221> misc\_feature

<223> Incyte ID No: 843193CD1

<400> 20

Met	Ala	Ile	Cys	Pro	Leu	His	Ser	Ala	Gly	Gln	Val	Ala	Cys	Pro
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His	Tyr	Ile	His	Leu	Leu	Thr	Pro	Leu	Pro	Trp	Met	Asp	Gln	Trp
				20					25					30
Trp	Cys	His	Pro	Lys	Gln	Ile	Asp	Thr	Ile	Phe	Pro	Leu	Val	Thr
				35					40					45
Ala	Lys	Gly	Glu	Asn	His	Pro	Ser	Pro	Asn	Phe	Asn	Gln	Tyr	Val
				50					55					60
Arg	Asp	Gln	Gly	Ala	Met	Thr	Asp	Gln	Leu	Ser	Arg	Arg	Gln	Ile
				65					70					75
Arg	Glu	Tyr	Gln	Leu	Tyr	Ser	Arg	Thr	Ser	Gly	Lys	His	Val	Gln
				80					85					90
Val	Thr	Gly	Arg	Arg	Ile	Ser	Ala	Thr	Ala	Glu	Asp	Gly	Asn	Lys
				95					100					105
Phe	Ala	Lys	Leu	Ile	Val	Glu	Thr	Asp	Thr	Phe	Gly	Ser	Arg	Val
				110					115					120
Arg	Ile	Lys	Gly	Ala	Glu	Ser	Glu	Lys	Tyr	Ile	Cys	Met	Asn	Lys
				125					130					135
Arg	Gly	Lys	Leu	Ile	Gly	Lys	Pro	Ser	Gly	Lys	Ser	Lys	Asp	Cys
				140					145					150
Val	Phe	Thr	Glu	Ile	Val	Leu	Glu	Asn	Asn	Tyr	Thr	Ala	Phe	Gln
				155					160					165
Asn	Ala	Arg	His	Glu	Gly	Trp	Phe	Met	Ala	Phe	Thr	Arg	Gln	Gly
				170					175					180
Arg	Pro	Arg	Gln	Ala	Ser	Arg	Ser	Arg	Gln	Asn	Gln	Arg	Glu	Ala
				185					190					195
His	Phe	Ile	Lys	Arg	Leu	Tyr	Gln	Gly	Gln	Leu	Pro	Leu	Thr	Asn
				200					205					210
His	Ala	Glu	Lys	Gln	Lys	Gln	Phe	Glu	Phe	Val	Gly	Ser	Ala	Pro
				215					220					225
Thr	Arg	Arg	Ala	Lys	Arg	Thr	Arg	Arg	Pro	Gln	Pro	Leu	Thr	
				230					235					

<210> 21

<211> 493

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1359783CD1

<400> 21

Met	Leu	Lys	Ala	Leu	Phe	Leu	Thr	Met	Leu	Thr	Leu	Ala	Leu	Val
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Lys	Ser	Gln	Asp	Thr	Glu	Glu	Thr	Ile	Thr	Tyr	Thr	Gln	Cys	Thr
				20					25					30
Asp	Gly	Tyr	Glu	Trp	Asp	Pro	Val	Arg	Gln	Gln	Cys	Lys	Asp	Ile
				35					40					45
Asp	Glu	Cys	Asp	Ile	Val	Pro	Asp	Ala	Cys	Lys	Gly	Gly	Met	Lys

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	50		55		60
Cys Val Asn His Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala					
	65		70		75
Gln Ile Ile Val Asn Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro					
	80		85		90
Ala Glu Gly Thr Ser Gly Ala Thr Thr Gly Val Val Ala Ala Ser					
	95		100		105
Ser Met Ala Thr Ser Gly Val Leu Pro Gly Gly Gly Phe Val Ala					
	110		115		120
Ser Ala Ala Ala Val Ala Gly Pro Glu Met Gln Thr Gly Arg Asn					
	125		130		135
Asn Phe Val Ile Arg Arg Asn Pro Ala Asp Pro Gln Arg Ile Pro					
	140		145		150
Ser Asn Pro Ser His Arg Ile Gln Cys Ala Ala Gly Tyr Glu Gln					
	155		160		165
Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu Cys Thr Ala Gly					
	170		175		180
Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn Leu Arg Gly					
	185		190		195
Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg Gly Glu					
	200		205		210
Gln Cys Val Asp Ile Asp Glu Cys Thr Ile Pro Pro Tyr Cys His					
	215		220		225
Gln Arg Cys Val Asn Thr Pro Gly Ser Phe Tyr Cys Gln Cys Ser					
	230		235		240
Pro Gly Phe Gln Leu Ala Ala Asn Asn Tyr Thr Cys Val Asp Ile					
	245		250		255
Asn Glu Cys Asp Ala Ser Asn Gln Cys Ala Gln Gln Cys Tyr Asn					
	260		265		270
Ile Leu Gly Ser Phe Ile Cys Gln Cys Asn Gln Gly Tyr Glu Leu					
	275		280		285
Ser Ser Asp Arg Leu Asn Cys Glu Asp Ile Asp Glu Cys Arg Thr					
	290		295		300
Ser Ser Tyr Leu Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys					
	305		310		315
Phe Ser Cys Met Cys Pro Gln Gly Tyr Gln Val Val Arg Ser Arg					
	320		325		330
Thr Cys Gln Asp Ile Asn Glu Cys Glu Thr Thr Asn Glu Cys Arg					
	335		340		345
Glu Asp Glu Met Cys Trp Asn Tyr His Gly Gly Phe Arg Cys Tyr					
	350		355		360
Pro Arg Asn Pro Cys Gln Asp Pro Tyr Ile Leu Thr Pro Glu Asn					
	365		370		375
Arg Cys Val Cys Pro Val Ser Asn Ala Met Cys Arg Glu Leu Pro					
	380		385		390
Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile Arg Ser Asp Arg Ser					
	395		400		405
Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr Thr Ile Tyr Ala					
	410		415		420
Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn Glu Asn Gly					
	425		430		435
Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val Ser Ala Met Leu Val					
	440		445		450
Leu Val Lys Ser Leu Ser Gly Pro Arg Glu His Ile Val Asp Leu					

0965528-092601

Parameter	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
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<400> 22

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<400> 23

15

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Trp	Leu	Ser	Pro	Arg	Ala	Gly	Glu	Gly	Leu	Asn	Ser	Gln	Phe	Trp
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Ser	Leu	Ala	Ala	Pro	Gln	Arg	Phe	Gly	Lys	Lys				
				110					115					

<210> 24

<211> 136

<212> PRT

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 4003984CD1

<400> 24

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Ser	Ala	Gln	Ala	Phe	Pro	Gln	Thr	Asp	Ile	Ser	Ile	Ser	Pro	Ala
				20					25					30
Leu	Pro	Glu	Leu	Pro	Leu	Pro	Ser	Leu	Cys	Pro	Leu	Phe	Trp	Met
				35					40					45
Glu	Phe	Lys	Gly	His	Cys	Tyr	Arg	Phe	Phe	Pro	Leu	Asn	Lys	Thr
				50					55					60
Trp	Ala	Glu	Ala	Asp	Leu	Tyr	Cys	Ser	Glu	Phe	Ser	Val	Gly	Arg
				65					70					75
Lys	Ser	Ala	Lys	Leu	Ala	Ser	Ile	His	Ser	Trp	Glu	Glu	Asn	Val
				80					85					90
Phe	Val	Tyr	Asp	Leu	Val	Asn	Ser	Cys	Val	Pro	Gly	Ile	Pro	Ala
				95					100					105
Asp	Val	Trp	Thr	Gly	Leu	His	Asp	His	Arg	Gln	Val	Arg	Lys	Gln
				110					115					120
Trp	Pro	Leu	Gly	Pro	Leu	Gly	Ser	Ser	Ser	Gln	Asp	Ser	Ile	Leu
				125					130					135

Ile

<210> 25

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4365383CD1

<400> 25

Met	Asn	Phe	Val	His	Thr	Ser	Arg	Lys	Val	Lys	Ser	Leu	Asn	Pro
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Lys	Lys	Phe	Ser	Ile	His	Asp	Gln	Asp	His	Lys	Val	Leu	Val	Leu
				20					25					30
Asp	Ser	Gly	Asn	Leu	Ile	Ala	Val	Pro	Asp	Lys	Asn	Tyr	Ile	Arg
				35					40					45
Pro	Glu	Ile	Phe	Phe	Ala	Leu	Ala	Ser	Ser	Leu	Ser	Ser	Ala	Ser
				50					55					60
Ala	Glu	Lys	Gly	Ser	Pro	Ile	Leu	Leu	Gly	Val	Ser	Lys	Gly	Glu



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	65		70		75
Phe Cys Leu Tyr Cys Asp Lys Asp Lys Gly Gln Ser His Pro Ser					
	80		85		90
Leu Gln Leu Lys Lys Glu Lys Leu Met Lys Leu Ala Ala Gln Lys					
	95		100		105
Glu Ser Ala Arg Arg Pro Phe Ile Phe Tyr Arg Ala Gln Val Gly					
	110		115		120
Ser Trp Asn Met Leu Glu Ser Ala Ala His Pro Gly Trp Phe Ile					
	125		130		135
Cys Thr Ser Cys Asn Cys Asn Glu Pro Val Gly Val Thr Asp Lys					
	140		145		150
Phe Glu Asn Arg Lys His Ile Glu Phe Ser Phe Gln Pro Val Cys					
	155		160		165
Lys Ala Glu Met Ser Pro Ser Glu Val Ser Asp					
	170		175		

<210> 26

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5497814CD1

<400> 26

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Cys Ser His Leu Ser Thr Phe Leu Trp Pro Pro Ser Leu Ala Cys					
	20		25		30
Cys Leu Glu Thr Leu Val Gly Ile Pro Phe Ser Arg His Arg Ser					
	35		40		45
Leu Gly Leu Ile Pro Ala Pro Arg Cys Leu Pro Leu Pro Ala Ala					
	50		55		60
Ile Pro Thr Ser Leu Cys Ser Pro Pro Phe His Ser Leu His Ser					
	65		70		75
Leu Pro Arg Cys Pro Leu Leu Lys Val Leu Gly His Pro Gln Val					
	80		85		90
Ala Trp Ser Arg Gln Gln Pro Leu His Phe Thr Ser Ala Asn Asp					
	95		100		105
Arg His Leu Ser Lys Ala Cys Pro Gly Cys Ser Trp Tyr Ser Ser					
	110		115		120
Asp Ser Leu Val Ala Phe Gln Arg Pro Phe Pro Ser Gly Leu					
	125		130		

<210> 27

<211> 2730

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1288847CB1

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PF-0701 USA

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<210> 28

<211> 1339

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1329044CB1

PF-0701 USA

<400> 28

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<210> 29

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1493630CB1

<400> 29

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ccaaggaact gaattttgtg agccaaatga gcatgcaatt cttgtttaag atggtggcct 180  
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ccttgatcag tccagaaatt ctcaaaactc ctttaatcac tttgcagatc ctcttaatac 360  
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caagaaaaga aaagtagaag aaccctgcag agatttgatg gaaccagct tctattcatt 480  
aaaaccaatg gcaaaatata aagcaaatag gaggtgacga aggttacaaa gatacgtatt 540  
gtttatgttt tccttggggg gtgctgattg tcaggcatca gttccctgtg ccattcattc 600  
cccaacacag catgcatcag aaattttatc aataaatgct ttctctctca atgttcaacc 660  
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<210> 30

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<211> 842

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1533041CB1

<400> 30

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ctgtccccag accaaccctg ggacctatac agaacagagg gccagagcta gggctgctgc 180
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ctgatgggct ggggcagggg cctgggcccg cgagggggcc ggggggaggg gacagagctg 600
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<210> 31

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1566162CB1

<400> 31

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cctgttttat ttcaactgct tgctcaaat aaactcacca cactggagtg caatctgcca 240
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tgatctgttt tagaacctgg ctctttcata gattataggt catttccctt ttctttatgg 420
caactcacia aagaggaatc aggaagctc ctgtaccaat gtggctctct aacaggatct 480
ggaactgaag actaattatt tggatgtggc ttacactcaa aaggacattt tgaagtgggt 540
gaagaggaga aactttccta acaacttgtt caaagactct ttactccag ggaacatagc 600
taactgggaa gagggtggag gatctagtgc cttgtcccat actggaaaca cacaggacag 660
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<210> 32

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1811831CB1

<400> 32

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cctgttcctg ctgtgcatgc atacatttta cagggatgtg tcctcagtgg acgtgagatt 180  
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tctttcccag gaggttttag gctcccatc tcctctccct ggctttctct ctgtcccatc 300  
caccgctcta cccttcaggc ctgcctatat gaaagaggtc tctttctatg cagaaaactc 360  
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gaacttgggg tccctgggag tcacagtgat gtccaccaga aaatcagaca acggtaatgt 480  
acctcccca tcaggttgcc aaaaattaga atagggtttg tgttttttgg tgttgtttgt 540  
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<210> 33

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1835447CB1

<400> 33

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ttcaatctgt atatgggaga taaactggag gggaagacga atggcaggag ggtgaagagg 180  
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aacgataggt actatttcgt gtaaggcaaa gtcctttgaa agggctccta gagcgtcaag 300  
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cgccgcccga ctcacacaca ccctcccccg ggaacggcaa gtctcctcgg gttccaagga 540  
cagggtcaaa agacaagagg cccgaggcgc tcccgccgtg atttgagcc agataccgtt 600  
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<210> 34

<211> 639

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 3892281CB1

<400> 34

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gttctgcttt agatgggtatt ggatggagcc ctggaatggc tgaaaagtc aaactggcct 180
gacttgctca gccagcaatg cgggtgcaggc tcctagctgg ggccttagtt ctctgcacc 240
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agaaatatgt cgctgtttat gctgtgtcca gtgctagctt gctacctgct ctcccagttc 480
cagtgtctag ggagcactg gcagaacaga tgtacttact gagttaaaaa cagcaacatc 540
caagacaatt gttaactttt aaaactgtct cccatcccag aagggtataac taaaaaacta 600
acaataaaaa taatagtaat aaataataaa aaaaaaaaaa 639
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<210> 35

<211> 996

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4318494CB1

<400> 35

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tatggtatgt gaacggcatc tcaataaaac tgtttcgaaa agaagggaaa ggacggacac 780
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gaaagtagat tacaattgc ctagggtgag agaaatggaa gtattggagg ttgacggcta 960
aaggatgtgg atttctttgg ggggtataaa agtgggt 996
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<210> 36

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5090841CB1

<400> 36

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ggagccccag ctggggcctg aggetgcgc cctccgccct ggctggctgg cctgctgct 180
gtgggtctca gccctgagct gttctttctc cttgccagct tcttccctt cttctctggt 240
gccccaaagtc agaaccagct acaatttttg aaggactttc ctcggtcttg ataaatgcaa 300
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tgcttgcacg gggacatcta tttgcaagaa gttcttttaa gaagaaataa gatctgacaa 360
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ctcagatgat tccaaaatct ggcgcctctg ggagatcttt agactgggtca gcaaatatca 480
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<210> 37

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2006548CB1

<400> 37

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ctcctcctag taactgtgtc tgactgtgct gtgatcacag gggcctgtga gcgggatgtc 180
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<210> 38

<211> 1265

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2207183CB1

PF-0701 USA

<400> 38

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gggaggcctt cactaaagg gaaaaggaag aggggggtcgg ccagtatccc cgaaagaggg 180
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aaaaa 1265
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<210> 39

<211> 1720

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2267403CB1

<400> 39

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gagggtcctc tctccttgc tgggactcgc gctgctctgg ttccccctgg actcccacgc 360
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<211> 1055

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2933038CB1

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<213> Homo sapiens

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<211> 702

<212> DNA

<213> Homo sapiens

<220>

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<211> 1855

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1235265CB1

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<210> 44

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

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<400> 44

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<211> 1906

<212> DNA

<213> Homo sapiens

<220>

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<210> 46

<211> 1803

<212> DNA

<213> Homo sapiens

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<220>

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<223> Incyte ID No: 843193CB1

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<211> 3053

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1359783CB1

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agactgctag aggagccatg ctacagggtc tgttcagcac cccacctga ctctgacgc 2280  
agagagggtg agaagctcat gggtcagcac tgggcttggc tgcccatctg aggcctgcaa 2340  
ctgtggccag catggaatgt ctatgggagg ccatcagctg ggacatttag aactcttctg 2400  
ggagggggcg tcttgacct tctggagagc atgtggggaa gcagaggagc tgctccccca 2460  
agccaggagg agctggtgct gagttgttta ttgggtgaga gttgtgtcca acaccaatga 2520  
tctttaaatg aactgagtc tagagctgtc cggaagacta gaactaggac cccggttggg 2580  
gactgcaggg agtgcttata gttgacatcg gacagggcag ctccgttagg aaggagtgtc 2640  
acctgactg ggaagggttc aagggaagg ttgcctgcct tagagaccaa gtaccctgat 2700  
aggccagcat caggctggcc tagtacaaag atggtctcga agcgccccca gggaaatgtg 2760  
cctccaacaa atcgaagtgg ataaaaagg caggacactc taatgagcac cgggcactct 2820  
ctagacatct ttttcagatt cccctctgct atgaggcagg tctgtctcca tcttgcatg 2880  
gagaatctca gtgaggaggc tcaggatcac acagccagta caggactctg gtgccgcgcc 2940  
gtctctaaag cccaccgttc aaccactcgc ctgtgtcttc agagaggctg gtggaacctg 3000  
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<210> 48

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1440015CB1

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<400> 48

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ggaggcgcgc ccgaacgaag ccgcggcccc ggacacagcca tggccccggc gccggggggc 120
gctcggatgt tgggcagcct cctgctcttc gccctgctcg ctgccggcgt cgcgccgctc 180
agctgggatc tcccggagcc ccgcagccga gccagcaaga tccgagtgc ctcgcgagge 240
aacctctggg ccaccgggtca cttcatgggc aagaagagtc tggagccttc cagcccatcc 300
ccattgggga cagctcccca cacctccctg agggaccagc gactgcagct gagtcatgat 360
ctgctcgga tctctctgct aaagaaggct ctgggcgtga gtcagccgc cccgcacccc 420
aatccagta caggaggctg ctggtacaaa tacttgaga aatgacacca ataattggggc 480
agacacaaca gcgtggctta gattgtggcc aaccccaggg aaaggtgctg aattgggaac 540
cttgttgaat gggccccatt                                     560
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<210> 49

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1652885CB1

<400> 49

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ctcgagcgcg ggggctgtgc tgaagggcca ggaggccagc aggaagacca gctctccgcg 60
gtgagtgtgt gtcccatccc catatcacca ttgcctctac ttcggttgag acttgtgctc 120
taggttctga tactttctct ggctgccaaag gttgtcatta ggtcctcaca tctgaggaaa 180
tggttccgca gcctcctacc acttgcctcc ggaagccagt cccttccctt tgtgacttac 240
gtgtccaggg tatttgccca tcttccctcc ctgatacccc cttggcacag gaggaagaca 300
gcgaaccctt cccaccacag gatgccaga cctctgggtc actgttgac tacctgctcc 360
aggcaatgga gagacctggc cggagccaag ccttctgtt tcagccccag aggtttggca 420
gaaataccca gggatcctgg aggaatgaat ggctgagtc ccgggctgga gaggggctga 480
attcccagtt ctggagcctg gctgcccctc aacgctttgg gaagaagtga catgtcatcc 540
cttgatatgt ctgcatgcaa ggtccacacc caaaagtgtc aatgtttgcc ccccaaataa 600
aattgtctgg ctt                                     613
```

<210> 50

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4003984CB1

<400> 50

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cctggacceca agctccagcc aaaaagcctc tctcctccac tcaggctggg aggttgcttt 60
ctaggagctc aggatgcaaa ggtggacact gtgggctgca gccttccctga ccctccactc 120
tgacagggcc tttccacaaa cagacatcag tatcagtcca gccctgccag agctgcccct 180
gccttccctg tgccccctgt tctggatgga gttcaaaggc cactgctatc gattcttccc 240
tctcaataag acctgggctg aggcgcacct ctactgttct gagttctctg tgggcaggaa 300
gtccgccaaag ctggcctcca tccacagctg ggaggagaat gtctttgtat atgacctcgt 360
gaacagctgt gttcccgcca tcccagctga cgtctggaca ggccttcctg atcacagaca 420
ggtgagaaag cagtggccat tgggccccct tggaagctcc agccaggatt ctattttgat 480
ttaataagct tttcacatca gtgccaggtc acggctatgc acacagcata tagagagaaa 540
tcagacacca agatgtcaca gttacagcat gaccaatttg tgaaagacat ttaatgatgt 600
```

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cctactaaat gatgggaaca gatagcatgg tcagagaaaa cctgtttggc tggga 655

<210> 51  
<211> 630  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 4365383CB1

<400> 51  
ccaggcccaa gcttccccac catgaatddd gttcacacaa gtcgaaaggt gaagagctta 60  
aaccggaaga aattcagcat tcatgaccag gatcacaaag tactgggtcct ggactctggg 120  
aatctcatag cagttccaga taaaaactac atacgcccag agatcttctt tgcattagcc 180  
tcatccttga gtcagcctc tgcggagaaa ggaagtccga ttctcctggg ggtctctaaa 240  
ggggagtttt gtctctactg tgacaaggat aaaggacaaa gtcattccatc ccttcagctg 300  
aagaaggaga aactgatgaa gctgggtgcc caaaaggaat cagcacgccg gcccttcac 360  
ttttataggg ctccaggtggg ctccctggaac atgctggagt cggcggtctca ccccgatgg 420  
ttcatctgca cctcctgcaa ttgtaatgag cctgttgggg tgacagataa atttgagaac 480  
aggaaacaca ttgaatddd atttcaacca gtttgcaaag ctgaaatgag cccagtgag 540  
gtcagcgatt aggaaactgc cccattgaac gccttcctcg ctaatttgaa ctaattgtat 600  
aaaaaccca aacctgctca ctaaaaaaaaa 630

<210> 52  
<211> 501  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 5497814CB1

<400> 52  
gcccttcttg tccccacat gtctgtcttg cctctgtgcg tctgccaact tctgctggcc 60  
tctgtctcac acctgtccac ctccctcttg cctcccagcc ttgcatgttg cttggaaaca 120  
ttggttgga ttccatttag ccggcaccgt agccttgccc tcatccctgc cccacggtgc 180  
ctgccccctc ccgtgcaat cccacttct ctctgctctc caccattcca cagcctgcat 240  
tcctacccc gatgccctct gctgaaagtc ctgggcatc cacaggtggc atgggtcaagg 300  
cagcagccac tgcactttac ctctgccaat gaccgtcatc tctccaaggc ctgccctggc 360  
tgcagctggg attccagtga cagcctgggt gcatttcaga gacccttccc ttcagggtg 420  
tgagaaggcg gcagcgttcc catgtgggaa aaaggaggag gagggctgtg tcttcttac 480  
tgtctctgag cagccccgcc c 501

<210> 53  
<211> 179  
<212> PRT  
<213> Cervus elaphus

<220>  
<221> misc\_feature  
<223> Genbank ID No: gi511295

<400> 53



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```

Met Pro Ser Ser Ser Ala Leu Leu Cys Cys Leu Val Phe Leu Ala
 1          5          10          15
Gly Val Ala Ala Ser Arg Asp Ala Ser Ala Pro Ser Asp Ser Ser
          20          25          30
Cys Thr His Phe Ser Asn Ser Leu Pro Leu Met Leu Arg Glu Leu
          35          40          45
Arg Thr Ala Phe Ser Arg Val Lys Asn Phe Phe Gln Met Lys Asp
          50          55          60
Gln Leu Asp Ser Met Leu Leu Thr Gln Ser Leu Leu Asp Asp Phe
          65          70          75
Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe
          80          85          90
Tyr Leu Glu Glu Val Met Pro Gln Ala Glu Asn His Gly Pro Glu
          95          100          105
Ile Lys Glu His Val Asn Ser Leu Gly Glu Lys Leu Lys Thr Leu
          110          115          120
Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn
          125          130          135
Lys Ser Lys Ala Val Glu Gln Val Lys Ser Val Phe Ser Lys Leu
          140          145          150
Gln Glu Arg Gly Val Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe
          155          160          165
Ile Asn Tyr Ile Glu Thr Tyr Thr Thr Met Lys Met Lys Asn
          170          175

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<210> 54

<211> 193

<212> PRT

<213> Macaca fascicularis

<220>

<221> misc\_feature

<223> Genbank ID No: gi1841298

<220>

<221> unsure

<222> 179-193

<223> Xaa is unknown

<400> 54

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Met His Ser Ser Ala Leu Leu Cys Cys Leu Val Leu Leu Thr Gly
 1          5          10          15
Val Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys
          20          25          30
Thr Arg Phe Pro Gly Asn Leu Pro His Met Leu Arg Asp Leu Arg
          35          40          45
Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln
          50          55          60
Leu Asp Asn Ile Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys
          65          70          75
Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr
          80          85          90
Leu Glu Glu Val Met Pro Gln Ala Glu Asn His Asp Pro Asp Ile
          95          100          105
Lys Glu His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg

```

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	110		115		120
Leu Arg Leu Arg Arg Cys His Arg Phe	Leu Pro Cys Glu Asn Lys				
	125		130		135
Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe Ser Lys Leu Gln					
	140		145		150
Glu Lys Gly Val Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile					
	155		160		165
Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn Xaa Xaa					
	170		175		180
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa					
	185		190		

<210> 55

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Genbank ID No: gi106805

<400> 55

Met His Ser Ser Ala Leu Leu Cys Cys Leu Val Leu Leu Thr Gly					
1	5		10		15
Val Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys					
	20		25		30
Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg					
	35		40		45
Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln					
	50		55		60
Leu Asp Asn Leu Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys					
	65		70		75
Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr					
	80		85		90
Leu Glu Glu Val Met Pro Gln Ala Glu Asn Gln Asp Pro Asp Ile					
	95		100		105
Lys Ala His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg					
	110		115		120
Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn Lys					
	125		130		135
Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe Asn Lys Leu Gln					
	140		145		150
Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile					
	155		160		165
Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn					
	170		175		